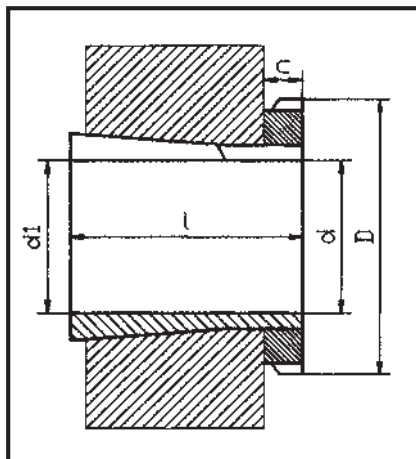


## MANGUITOS CON TUERCA Y ARANDELA H2/H23 / H2/H23 SLEEVES WITH NUT AND WASHER / MANCHONS À ÉCROU ET RONDELLE H2/H23 / HÜLSEN MIT MUTTER UND UNTERLEGSCHIEBE H2/H23

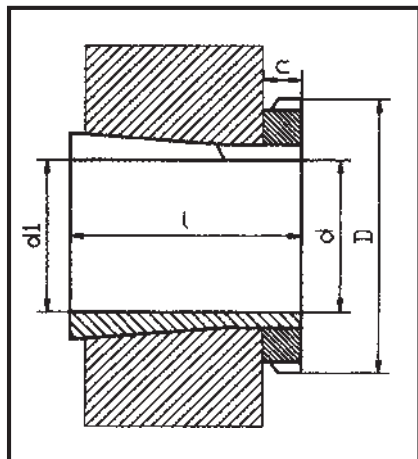


| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |    |     | Tuerca<br>Nut<br>Écrou<br>Mutter | Arandela<br>Washer<br>Rondelle<br>Unterlegscheibe |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|----|-----|----------------------------------|---------------------------------------------------|
|                             |                                            | d                                                    | d1  | L  | D   |                                  |                                                   |
| H 204                       | 0,041                                      | 20                                                   | 17  | 24 | 32  | KM 4                             | MB 4                                              |
| H 205                       | 0,070                                      | 25                                                   | 20  | 26 | 38  | KM 5                             | MB 5                                              |
| H 206                       | 0,099                                      | 30                                                   | 25  | 27 | 45  | KM 6                             | MB 6                                              |
| H 207                       | 0,130                                      | 35                                                   | 30  | 29 | 52  | KM 7                             | MB 7                                              |
| H 208                       | 0,170                                      | 40                                                   | 35  | 31 | 58  | KM 8                             | MB 8                                              |
| H 209                       | 0,230                                      | 45                                                   | 40  | 33 | 65  | KM 9                             | MB 9                                              |
| H 210                       | 0,270                                      | 50                                                   | 45  | 35 | 70  | KM 10                            | MB 10                                             |
| H 211                       | 0,310                                      | 55                                                   | 50  | 37 | 75  | KM 11                            | MB 11                                             |
| H 212                       | 0,350                                      | 60                                                   | 55  | 38 | 80  | KM 12                            | MB 12                                             |
| H 213                       | 0,400                                      | 65                                                   | 60  | 40 | 85  | KM 13                            | MB 13                                             |
| H 214                       | 0,590                                      | 70                                                   | 60  | 41 | 92  | KM 14                            | MB 14                                             |
| H 215                       | 0,710                                      | 75                                                   | 65  | 43 | 98  | KM 15                            | MB 15                                             |
| H 216                       | 0,880                                      | 80                                                   | 70  | 46 | 105 | KM 16                            | MB 16                                             |
| H 217                       | 1,000                                      | 85                                                   | 75  | 50 | 110 | KM 17                            | MB 17                                             |
| H 218                       | 1,200                                      | 90                                                   | 80  | 52 | 120 | KM 18                            | MB 18                                             |
| H 219                       | 1,320                                      | 95                                                   | 85  | 55 | 125 | KM 19                            | MB 19                                             |
| H 220                       | 1,500                                      | 100                                                  | 90  | 58 | 130 | KM 20                            | MB 20                                             |
| H 221                       | 1,700                                      | 105                                                  | 95  | 60 | 140 | KM 21                            | MB 21                                             |
| H 222                       | 1,900                                      | 110                                                  | 100 | 63 | 145 | KM 22                            | MB 22                                             |

## MANGUITOS CON TUERCA Y ARANDELA LA SERIE H23 / H23 SERIES SLEEVES WITH NUT AND WASHER / MANCHONS À ÉCROU ET RONDELLE DE LA SÉRIE H23 / HÜLSEN MIT MUTTER UND UNTERLEGSCHIEBE DER SERIE H23

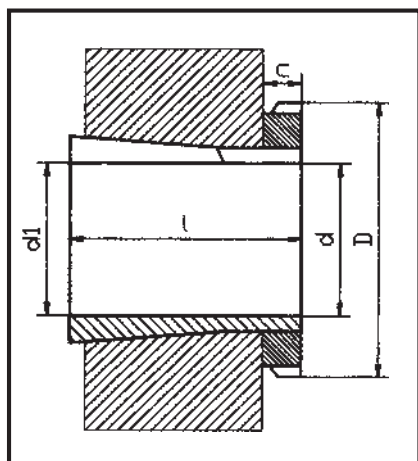
| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |     |     | Tuerca<br>Nut<br>Écrou<br>Mutter | Arandela<br>Washer<br>Rondelle<br>Unterlegscheibe |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|-----|-----|----------------------------------|---------------------------------------------------|
|                             |                                            | d                                                    | d1  | L   | D   |                                  |                                                   |
| H 2304                      | 0,049                                      | 20                                                   | 17  | 31  | 32  | KM 4                             | MB 4                                              |
| H 2305                      | 0,087                                      | 25                                                   | 20  | 35  | 38  | KM 5                             | MB 5                                              |
| H 2306                      | 0,130                                      | 30                                                   | 25  | 38  | 45  | KM 6                             | MB 6                                              |
| H 2307                      | 0,170                                      | 35                                                   | 30  | 43  | 52  | KM 7                             | MB 7                                              |
| H 2308                      | 0,220                                      | 40                                                   | 35  | 46  | 58  | KM 8                             | MB 8                                              |
| H 2309                      | 0,280                                      | 45                                                   | 40  | 50  | 65  | KM 9                             | MB 9                                              |
| H 2310                      | 0,360                                      | 50                                                   | 45  | 55  | 70  | KM 10                            | MB 10                                             |
| H 2311                      | 0,420                                      | 55                                                   | 50  | 59  | 75  | KM 11                            | MB 11                                             |
| H 2312                      | 0,480                                      | 60                                                   | 55  | 62  | 80  | KM 12                            | MB 12                                             |
| H 2313                      | 0,550                                      | 65                                                   | 60  | 65  | 85  | KM 13                            | MB 13                                             |
| H 2314                      | 0,900                                      | 70                                                   | 60  | 68  | 92  | KM 14                            | MB 14                                             |
| H 2315                      | 1,050                                      | 75                                                   | 65  | 73  | 98  | KM 15                            | MB 15                                             |
| H 2316                      | 1,300                                      | 80                                                   | 70  | 78  | 105 | KM 16                            | MB 16                                             |
| H 2317                      | 1,450                                      | 85                                                   | 75  | 82  | 110 | KM 17                            | MB 17                                             |
| H 2318                      | 1,700                                      | 90                                                   | 80  | 86  | 120 | KM 18                            | MB 18                                             |
| H 2319                      | 1,900                                      | 95                                                   | 85  | 90  | 125 | KM 19                            | MB 19                                             |
| H 2320                      | 2,150                                      | 100                                                  | 90  | 97  | 130 | KM 20                            | MB 20                                             |
| H 2321                      | 2,500                                      | 105                                                  | 95  | 101 | 140 | KM 21                            | MB 21                                             |
| H 2322                      | 2,750                                      | 110                                                  | 100 | 105 | 145 | KM 22                            | MB 22                                             |
| H 2324                      | 3,200                                      | 120                                                  | 110 | 112 | 155 | KM 24                            | MB 24                                             |
| H 2326                      | 4,600                                      | 130                                                  | 115 | 121 | 165 | KM 26                            | MB 26                                             |
| H 2328                      | 5,550                                      | 140                                                  | 125 | 131 | 180 | KM 28                            | MB 28                                             |
| H 2330                      | 6,600                                      | 150                                                  | 135 | 139 | 195 | KM 30                            | MB 30                                             |
| H 2332                      | 9,150                                      | 160                                                  | 140 | 147 | 210 | KM 32                            | MB 32                                             |
| H 2334                      | 10,000                                     | 170                                                  | 150 | 154 | 220 | KM 34                            | MB 34                                             |
| H 2336                      | 11,000                                     | 180                                                  | 160 | 161 | 230 | KM 36                            | MB 36                                             |
| H 2338                      | 12,500                                     | 190                                                  | 170 | 169 | 240 | KM 38                            | MB 38                                             |
| H 2340                      | 14,000                                     | 200                                                  | 180 | 176 | 250 | KM 40                            | MB 40                                             |
| H 2344                      | 16,700                                     | 220                                                  | 200 | 186 | 280 | HM 44T                           | MB 44                                             |
| H 2348                      | 19,700                                     | 240                                                  | 220 | 199 | 300 | HM 48T                           | MB 48                                             |
| H 2352                      | 24,200                                     | 260                                                  | 240 | 211 | 330 | HM 52T                           | MB 52                                             |
| H 2356                      | 27,800                                     | 280                                                  | 260 | 224 | 350 | HM 56T                           | MB 56                                             |

## MANGUITOS CON TUERCA Y ARANDELA H3 / H3 SLEEVES WITH NUT AND WASHER / MANCHONS À ÉCROU ET RONDELLE H3 / HÜLSEN MIT MUTTER UND UNTERLEGSCHIEBE H3



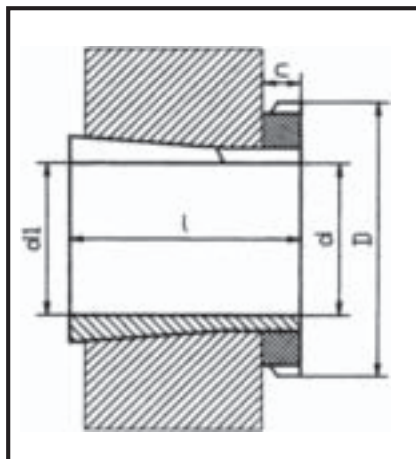
| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |    |     | Tuerca<br>Nut<br>Écrou<br>Mutter | Arandela<br>Washer<br>Rondelle<br>Unterlegscheibe |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|----|-----|----------------------------------|---------------------------------------------------|
|                             |                                            | d                                                    | d1  | L  | D   |                                  |                                                   |
| H 304                       | 0,045                                      | 20                                                   | 17  | 28 | 32  | KM 4                             | MB 4                                              |
| H 305                       | 0,075                                      | 25                                                   | 20  | 29 | 38  | KM 5                             | MB 5                                              |
| H 306                       | 0,110                                      | 30                                                   | 25  | 31 | 45  | KM 6                             | MB 6                                              |
| H 307                       | 0,140                                      | 35                                                   | 30  | 35 | 52  | KM 7                             | MB 7                                              |
| H 308                       | 0,190                                      | 40                                                   | 35  | 36 | 58  | KM 8                             | MB 8                                              |
| H 309                       | 0,250                                      | 45                                                   | 40  | 39 | 65  | KM 9                             | MB 9                                              |
| H 310                       | 0,300                                      | 50                                                   | 45  | 42 | 70  | KM 10                            | MB 10                                             |
| H 311                       | 0,340                                      | 55                                                   | 50  | 45 | 75  | KM 11                            | MB 11                                             |
| H 312                       | 0,390                                      | 60                                                   | 55  | 47 | 80  | KM 12                            | MB 12                                             |
| H 313                       | 0,460                                      | 65                                                   | 60  | 50 | 85  | KM 13                            | MB 13                                             |
| H 314                       | 0,720                                      | 70                                                   | 60  | 52 | 92  | KM 14                            | MB 14                                             |
| H 315                       | 0,830                                      | 75                                                   | 65  | 55 | 98  | KM 15                            | MB 15                                             |
| H 316                       | 1,000                                      | 80                                                   | 70  | 59 | 105 | KM 16                            | MB 16                                             |
| H 317                       | 1,200                                      | 85                                                   | 75  | 63 | 110 | KM 17                            | MB 17                                             |
| H 318                       | 1,350                                      | 90                                                   | 80  | 65 | 120 | KM 18                            | MB 18                                             |
| H 319                       | 1,550                                      | 95                                                   | 85  | 68 | 125 | KM 19                            | MB 19                                             |
| H 320                       | 1,700                                      | 100                                                  | 90  | 71 | 130 | KM 20                            | MB 20                                             |
| H 321                       | 2,000                                      | 105                                                  | 95  | 74 | 140 | KM 21                            | MB 21                                             |
| H 322                       | 2,200                                      | 110                                                  | 100 | 77 | 145 | KM 22                            | MB 22                                             |

## MANGUITOS CON TUERCA Y ARANDELA LA SERIE H30 / H30 SLEEVES WITH NUT AND WASHER / MANCHONS À ÉCROU ET RONDELLE DE LA SÉRIE H30 / HÜLSEN MIT MUTTER UND UNTERLEGSCHIEBE DER SERIE H30



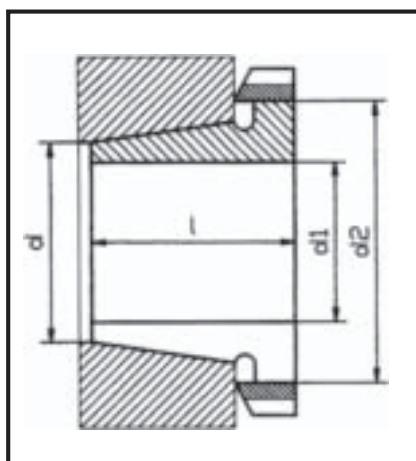
| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |     |     | Tuerca<br>Nut<br>Écrou<br>Mutter | Arandela<br>Washer<br>Rondelle<br>Unterlegscheibe |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|-----|-----|----------------------------------|---------------------------------------------------|
|                             |                                            | d                                                    | d1  | L   | D   |                                  |                                                   |
| H 3024                      | 1,950                                      | 120                                                  | 110 | 72  | 145 | KM 24                            | MB 24                                             |
| H 3026                      | 2,850                                      | 130                                                  | 115 | 80  | 155 | KM 26                            | MB 26                                             |
| H 3028                      | 3,150                                      | 140                                                  | 125 | 82  | 165 | KM 28                            | MB 28                                             |
| H 3030                      | 3,900                                      | 150                                                  | 135 | 87  | 180 | KM 30                            | MB 30                                             |
| H 3032                      | 5,200                                      | 160                                                  | 140 | 93  | 190 | KM 32                            | MB 32                                             |
| H 3034                      | 6,000                                      | 170                                                  | 150 | 101 | 200 | KM 34                            | MB 34                                             |
| H 3036                      | 6,850                                      | 180                                                  | 160 | 109 | 210 | KM 36                            | MB 36                                             |
| H 3038                      | 7,450                                      | 190                                                  | 170 | 112 | 220 | KM 38                            | MB 38                                             |
| H 3040                      | 9,200                                      | 200                                                  | 180 | 120 | 240 | KM 40                            | MB 40                                             |
| H 3044                      | 10,300                                     | 220                                                  | 200 | 128 | 260 | HM 44                            | MB 44                                             |
| H 3048                      | 13,200                                     | 240                                                  | 220 | 133 | 290 | HM 48                            | MB 48                                             |
| H 3052                      | 15,300                                     | 260                                                  | 240 | 147 | 310 | HM 52                            | MB 52                                             |
| H 3056                      | 17,700                                     | 280                                                  | 260 | 152 | 330 | HM 56                            | MB 56                                             |
| H 3060                      | 22,800                                     | 300                                                  | 280 | 168 | 360 | HM 60                            | MB 60                                             |
| H 3064                      | 24,600                                     | 320                                                  | 300 | 171 | 380 | HM 64                            | MB 64                                             |
| H 3068                      | 28,700                                     | 340                                                  | 320 | 187 | 400 | HM 68                            | MB 68                                             |
| H 3072                      | 30,500                                     | 360                                                  | 340 | 188 | 420 | HM 72                            | MB 72                                             |
| H 3076                      | 35,800                                     | 380                                                  | 360 | 193 | 450 | HM 76                            | MB 76                                             |
| H 3080                      | 41,300                                     | 400                                                  | 380 | 210 | 470 | HM 80                            | MB 80                                             |
| H 3084                      | 43,700                                     | 420                                                  | 400 | 212 | 490 | HM 84                            | MB 84                                             |
| H 3088                      | 65,200                                     | 440                                                  | 410 | 228 | 520 | HM 88                            | MB 88                                             |
| H 3092                      | 69,500                                     | 460                                                  | 430 | 234 | 540 | HM 92                            | MB 92                                             |
| H 3096                      | 73,300                                     | 480                                                  | 450 | 237 | 560 | HM 96                            | MB 96                                             |

# MANGUITOS CON TUERCA Y ARANDELA H31 / H31 SLEEVES WITH NUT AND WASHER / MANCHONS À ÉCROU ET RONDELLE H31 / HÜLSEN MIT MUTTER UND UNTERLEGSCHIEBE H31



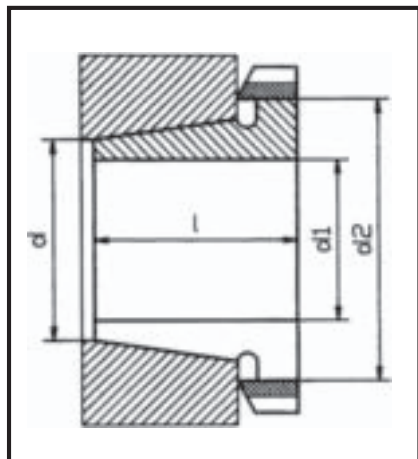
| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |     |     | Tuerca<br>Nut<br>Ecrrou<br>Mutter | Arandela<br>Washer<br>Rondelle<br>Unterlegscheibe |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|-----|-----|-----------------------------------|---------------------------------------------------|
|                             |                                            | d                                                    | d1  | L   | D   |                                   |                                                   |
| H 3120                      | 1,800                                      | 100                                                  | 90  | 76  | 130 | KM 20                             | MB 20                                             |
| H 3122                      | 2,250                                      | 110                                                  | 100 | 81  | 145 | KM 22                             | MB 22                                             |
| H 3124                      | 2,650                                      | 120                                                  | 110 | 88  | 155 | KM 24                             | MB 24                                             |
| H 3126                      | 3,650                                      | 130                                                  | 115 | 92  | 165 | KM 26                             | MB 26                                             |
| H 3128                      | 4,350                                      | 140                                                  | 125 | 97  | 180 | KM 28                             | MB 28                                             |
| H 3130                      | 5,500                                      | 150                                                  | 135 | 111 | 195 | KM 30                             | MB 30                                             |
| H 3132                      | 7,650                                      | 160                                                  | 140 | 119 | 210 | KM 32                             | MB 32                                             |
| H 3134                      | 8,400                                      | 170                                                  | 150 | 122 | 220 | KM 34                             | MB 34                                             |
| H 3136                      | 9,500                                      | 180                                                  | 160 | 131 | 230 | KM 36                             | MB 36                                             |
| H 3138                      | 11,000                                     | 190                                                  | 170 | 141 | 240 | KM 38                             | MB 38                                             |
| H 3140                      | 12,000                                     | 200                                                  | 180 | 150 | 250 | KM 40                             | MB 40                                             |
| H 3144                      | 14,700                                     | 220                                                  | 200 | 161 | 280 | HM 44T                            | MB 44                                             |
| H 3148                      | 17,300                                     | 240                                                  | 220 | 172 | 300 | HM 48T                            | MB 48                                             |
| H 3152                      | 22,000                                     | 260                                                  | 240 | 190 | 330 | HM 52T                            | MB 52                                             |
| H 3156                      | 24,500                                     | 280                                                  | 260 | 195 | 350 | HM 56T                            | MB 56                                             |
| H 3160                      | 30,200                                     | 300                                                  | 280 | 208 | 380 | HM 60                             | MB 60                                             |
| H 3164                      | 34,900                                     | 320                                                  | 300 | 226 | 400 | HM 64                             | MB 64                                             |
| H 3168                      | 49,500                                     | 340                                                  | 320 | 254 | 440 | HM 68                             | MB 68                                             |
| H 3172                      | 54,200                                     | 360                                                  | 340 | 259 | 460 | HM 72                             | MB 72                                             |
| H 3176                      | 61,700                                     | 380                                                  | 360 | 264 | 490 | HM 76                             | MB 76                                             |
| H 3180                      | 70,600                                     | 400                                                  | 380 | 272 | 520 | HM 80                             | MB 80                                             |
| H 3184                      | 84,200                                     | 420                                                  | 400 | 304 | 540 | HM 84                             | MB 84                                             |
| H 3188                      | 104,000                                    | 440                                                  | 410 | 307 | 560 | HM 88                             | MB 88                                             |
| H 3192                      | 116,000                                    | 460                                                  | 430 | 326 | 580 | HM 92                             | MB 92                                             |
| H 3196                      | 133,000                                    | 480                                                  | 450 | 335 | 620 | HM 96                             | MB 96                                             |

# MANGUITOS DE DESMONTAJE AH3/AH30/AH31/AH32 (CONT.) / REMOVAL SLEEVES AH3/AH30/AH31/AH32 (CONT.) / MANCHONS DE DÉMONTAGE AH3/AH30/AH31/AH32 (CONT.) / ABZIEHHÜLSEN AH3/AH30/AH31/AH32 (FORTS.)



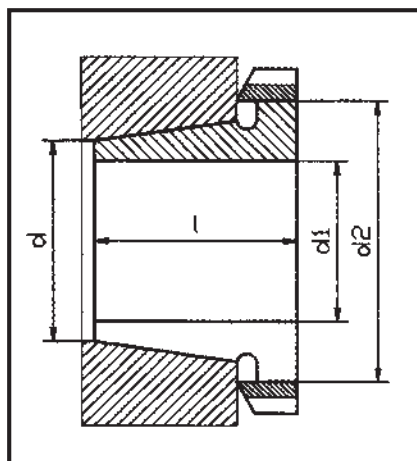
| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |     |    | Roscado<br>Thread<br>Filetage<br>Mit gewinde | Tuerca<br>Nut<br>Ecrrou<br>Mutter |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|-----|----|----------------------------------------------|-----------------------------------|
|                             |                                            | d                                                    | d1  | d2  | L  |                                              |                                   |
| AH 308                      | 0,090                                      | 40                                                   | 35  | 45  | 29 | M 45x1,5                                     | KM 9                              |
| AH 309                      | 0,110                                      | 45                                                   | 40  | 50  | 31 | M 50x1,5                                     | KM 10                             |
| AH 310                      | 0,160                                      | 50                                                   | 45  | 60  | 35 | M 60x2                                       | KM 12                             |
| AH 311                      | 0,190                                      | 55                                                   | 50  | 65  | 37 | M 65x2                                       | KM 13                             |
| AH 312                      | 0,220                                      | 60                                                   | 55  | 70  | 40 | M 70x2                                       | KM 14                             |
| AH 313                      | 0,250                                      | 65                                                   | 60  | 75  | 42 | M 75x2                                       | KM 15                             |
| AH 314                      | 0,280                                      | 70                                                   | 65  | 80  | 43 | M 80x2                                       | KM 16                             |
| AH 315                      | 0,310                                      | 75                                                   | 70  | 85  | 45 | M 85x2                                       | KM 17                             |
| AH 316                      | 0,370                                      | 80                                                   | 75  | 90  | 48 | M 90x2                                       | KM 18                             |
| AH 317                      | 0,480                                      | 85                                                   | 80  | 100 | 52 | M 100x2                                      | KM 20                             |
| AH 318                      | 0,520                                      | 90                                                   | 85  | 105 | 53 | M 105x2                                      | KM 21                             |
| AH 319                      | 0,590                                      | 95                                                   | 90  | 110 | 57 | M 110x2                                      | KM 22                             |
| AH 320                      | 0,660                                      | 100                                                  | 95  | 115 | 59 | M 115x2                                      | KM 23                             |
| AH 322                      | 1,260                                      | 110                                                  | 100 | 130 | 63 | M 130x2                                      | KM 26                             |
| AH 3122                     | 1,280                                      | 110                                                  | 100 | 125 | 68 | M 125x2                                      | KM 25                             |
| AH 3024                     | 1,150                                      | 120                                                  | 110 | 130 | 60 | M 130x2                                      | KM 26                             |
| AH 3124                     | 1,670                                      | 120                                                  | 110 | 140 | 75 | M 140x2                                      | KM 28                             |
| AH 3026                     | 1,410                                      | 130                                                  | 120 | 140 | 67 | M 140x2                                      | KM 28                             |
| AH 3126                     | 1,870                                      | 130                                                  | 120 | 150 | 78 | M 150x2                                      | KM 30                             |
| AH 3028                     | 1,550                                      | 140                                                  | 130 | 150 | 68 | M 150x2                                      | KM 30                             |
| AH 3128                     | 2,210                                      | 140                                                  | 130 | 160 | 83 | M 160x3                                      | KM 32                             |
| AH 3030                     | 1,760                                      | 150                                                  | 140 | 160 | 72 | M 160x3                                      | KM 32                             |
| AH 3130                     | 2,700                                      | 150                                                  | 140 | 170 | 96 | M 170x3                                      | KM 34                             |
| AH 3032                     | 2,060                                      | 160                                                  | 150 | 170 | 77 | M 170x3                                      | KM 34                             |

# MANGUITOS DE DESMONTAJE AH3/AH30/AH31/AH32 / REMOVAL SLEEVES AH3/AH30/AH31/AH32 / MANCHONS DE DÉMONTAGE AH3/AH30/AH31/AH32 / ABZIEHHÜLSEN AH3/AH30/AH31/AH32



| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |     |     | Roscado<br>Thread<br>Filetage<br>Mit gewinde | Tuerca<br>Nut<br>Ecrrou<br>Mutter |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|-----|-----|----------------------------------------------|-----------------------------------|
|                             |                                            | d                                                    | d1  | d2  | L   |                                              |                                   |
| AH 3132                     | 3,210                                      | 160                                                  | 150 | 180 | 103 | M 180x3                                      | KM 36                             |
| AH 3232                     | 4,080                                      | 160                                                  | 150 | 180 | 124 | M 180x3                                      | KM 36                             |
| AH 3034                     | 2,400                                      | 170                                                  | 160 | 180 | 85  | M 180x3                                      | KM 36                             |
| AH 3134                     | 3,400                                      | 170                                                  | 160 | 190 | 104 | M 190x3                                      | KM 38                             |
| AH 3234                     | 4,800                                      | 170                                                  | 160 | 190 | 134 | M 190x3                                      | KM 38                             |
| AH 3036                     | 2,800                                      | 180                                                  | 170 | 190 | 92  | M 190x3                                      | KM 38                             |
| AH 3136                     | 4,200                                      | 180                                                  | 170 | 200 | 116 | M 200x3                                      | KM 40                             |
| AH 3236                     | 5,300                                      | 180                                                  | 170 | 200 | 140 | M 200x3                                      | KM 40                             |
| AH 3038                     | 3,350                                      | 190                                                  | 180 | 205 | 96  | Tr 205x4                                     | HML 41T                           |
| AH 3138                     | 4,900                                      | 190                                                  | 180 | 210 | 125 | Tr 210x4                                     | HM 42T                            |
| AH 3238                     | 5,900                                      | 190                                                  | 180 | 210 | 145 | Tr 210x4                                     | HM 42T                            |
| AH 3040                     | 3,800                                      | 200                                                  | 190 | 215 | 102 | Tr 215x4                                     | HML 43T                           |
| AH 3140                     | 5,500                                      | 200                                                  | 190 | 220 | 134 | Tr 220x4                                     | HM 44T                            |
| AH 3240                     | 6,700                                      | 200                                                  | 190 | 220 | 153 | Tr 220x4                                     | HM 44T                            |
| AH 3044                     | 7,400                                      | 220                                                  | 200 | 235 | 111 | Tr 235x4                                     | HML 47T                           |
| AH 3144                     | 10,400                                     | 220                                                  | 200 | 240 | 145 | Tr 240x4                                     | HM 48T                            |
| AH 3048                     | 8,750                                      | 240                                                  | 220 | 260 | 116 | Tr 260x4                                     | HML 52T                           |
| AH 3148                     | 12,000                                     | 240                                                  | 220 | 260 | 154 | Tr 260x4                                     | HM 52T                            |
| AH 3052                     | 10,700                                     | 260                                                  | 240 | 280 | 128 | Tr 280x4                                     | HML 56T                           |
| AH 3152                     | 16,200                                     | 260                                                  | 240 | 290 | 172 | Tr 290x4                                     | HM 58T                            |
| AH 3056                     | 12,000                                     | 280                                                  | 260 | 300 | 131 | Tr 300x4                                     | HML 60T                           |
| AH 3156                     | 17,500                                     | 280                                                  | 260 | 310 | 175 | Tr 310x4                                     | HM 62T                            |
| AH 3060                     | 14,400                                     | 300                                                  | 280 | 320 | 145 | Tr 320x5                                     | HML 64T                           |
| AH 3160                     | 20,800                                     | 300                                                  | 280 | 330 | 192 | Tr 330x5                                     | HM 66T                            |
| AH 3260                     | 26,000                                     | 300                                                  | 280 | 330 | 228 | Tr 330x5                                     | HM 66T                            |
| AH 3064                     | 16,000                                     | 320                                                  | 300 | 345 | 149 | Tr 345x5                                     | HML 69T                           |
| AH 3164                     | 24,500                                     | 320                                                  | 300 | 350 | 209 | Tr 350x5                                     | HM 70T                            |
| AH 3264                     | 30,600                                     | 320                                                  | 300 | 350 | 246 | Tr 350x5                                     | HM 70T                            |
| AH 3068                     | 19,500                                     | 340                                                  | 320 | 365 | 162 | Tr 365x5                                     | HML 73T                           |
| AH 3168                     | 29,000                                     | 340                                                  | 320 | 370 | 225 | Tr 370x5                                     | HM 74T                            |
| AH 3268                     | 35,400                                     | 340                                                  | 320 | 370 | 264 | Tr 370x5                                     | HM 74T                            |
| AH 3072                     | 21,000                                     | 360                                                  | 340 | 385 | 167 | Tr 385x5                                     | HML 77T                           |
| AH 3172                     | 33,000                                     | 360                                                  | 340 | 400 | 229 | Tr 400x5                                     | HM 80T                            |
| AH 3272                     | 41,500                                     | 360                                                  | 340 | 400 | 274 | Tr 400x5                                     | HM 80T                            |
| AH 3076                     | 23,200                                     | 380                                                  | 360 | 410 | 170 | Tr 410x5                                     | HML 82T                           |
| AH 3176                     | 35,700                                     | 380                                                  | 360 | 420 | 232 | Tr 420x5                                     | HM 84T                            |
| AH 3276                     | 45,600                                     | 380                                                  | 360 | 420 | 284 | Tr 420x5                                     | HM 84T                            |
| AH 3080                     | 27,300                                     | 400                                                  | 380 | 430 | 183 | Tr 430x5                                     | HML 86T                           |
| AH 3180                     | 39,500                                     | 400                                                  | 380 | 440 | 240 | Tr 440x5                                     | HM 88T                            |
| AH 3280                     | 51,700                                     | 400                                                  | 380 | 440 | 302 | Tr 440x5                                     | HM 88T                            |
| AH 3084                     | 29,000                                     | 420                                                  | 400 | 450 | 183 | Tr 450x5                                     | HML 90T                           |
| AH 3184                     | 46,500                                     | 420                                                  | 400 | 460 | 266 | Tr 460x5                                     | HM 92T                            |
| AH 3284                     | 58,900                                     | 420                                                  | 400 | 460 | 321 | Tr 460x5                                     | HM 92T                            |

# MANGUITOS DE DESMONTAJE AH22/AH23 / REMOVAL SLEEVES AH22/AH23 / MANCHONS DE DÉMONTAGE AH22/AH23 / ABZIEHHÜLSEN AH22/AH23

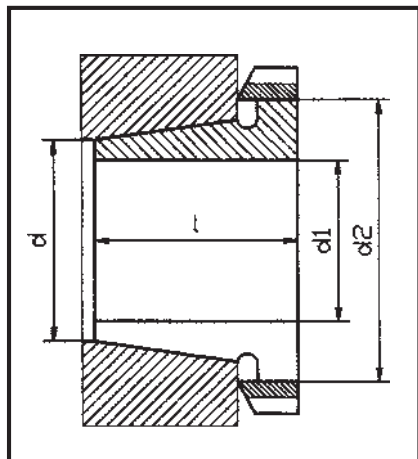


| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |     |     | Roscado<br>Thread<br>Filetage<br>Mit gewinde | Tuerca<br>Nut<br>Écrou<br>Mutter |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|-----|-----|----------------------------------------------|----------------------------------|
|                             |                                            | d                                                    | d1  | d2  | L   |                                              |                                  |
| AH 2308                     | 0,130                                      | 40                                                   | 35  | 45  | 40  | M 45x1,5                                     | KM 9                             |
| AH 2309                     | 0,160                                      | 45                                                   | 40  | 50  | 44  | M 50x1,5                                     | KM 10                            |
| AH 2310                     | 0,240                                      | 50                                                   | 45  | 60  | 50  | M 60x2                                       | KM 12                            |
| AH 2311                     | 0,290                                      | 55                                                   | 50  | 65  | 54  | M 65x2                                       | KM 13                            |
| AH 2312                     | 0,340                                      | 60                                                   | 55  | 70  | 57  | M 70x2                                       | KM 14                            |
| AH 2313                     | 0,400                                      | 65                                                   | 60  | 75  | 61  | M 75x2                                       | KM 15                            |
| AH 2314                     | 0,530                                      | 70                                                   | 65  | 85  | 65  | M 85x2                                       | KM 17                            |
| AH 2315                     | 0,610                                      | 75                                                   | 70  | 90  | 69  | M 90x2                                       | KM 18                            |
| AH 2316                     | 0,670                                      | 80                                                   | 75  | 95  | 72  | M 95x2                                       | KM 19                            |
| AH 2317                     | 0,750                                      | 85                                                   | 80  | 100 | 75  | M 100x2                                      | KM 20                            |
| AH 2318                     | 0,850                                      | 90                                                   | 85  | 105 | 80  | M 105x2                                      | KM 21                            |
| AH 2319                     | 0,980                                      | 95                                                   | 90  | 110 | 85  | M 110x2                                      | KM 22                            |
| AH 2320                     | 1,230                                      | 100                                                  | 95  | 120 | 90  | M 120x2                                      | KM 24                            |
| AH 2322                     | 2,110                                      | 110                                                  | 100 | 130 | 98  | M 130x2                                      | KM 26                            |
| AH 2324                     | 2,470                                      | 120                                                  | 110 | 140 | 105 | M 140x2                                      | KM 28                            |
| AH 2326                     | 3,020                                      | 130                                                  | 120 | 150 | 115 | M 150x2                                      | KM 30                            |
| AH 2328                     | 3,600                                      | 140                                                  | 130 | 160 | 125 | M 160x3                                      | KM 32                            |
| AH 2330                     | 4,220                                      | 150                                                  | 140 | 170 | 135 | M 170x3                                      | KM 34                            |
| AH 2332                     | 4,720                                      | 160                                                  | 150 | 180 | 140 | M 180x3                                      | KM 36                            |
| AH 2334                     | 5,250                                      | 170                                                  | 160 | 190 | 146 | M 190x3                                      | KM 38                            |
| AH 2236                     | 3,750                                      | 180                                                  | 170 | 200 | 105 | M 200x3                                      | KM 40                            |
| AH 2336                     | 5,800                                      | 180                                                  | 170 | 200 | 154 | M 200x3                                      | KM 40                            |
| AH 2238                     | 4,250                                      | 190                                                  | 180 | 210 | 112 | Tr 210x4                                     | HM 42T                           |
| AH 2338                     | 6,600                                      | 190                                                  | 180 | 210 | 160 | Tr 210x4                                     | HM 42T                           |
| AH 2240                     | 4,700                                      | 200                                                  | 190 | 220 | 118 | Tr 220x4                                     | HM 44T                           |
| AH 2340                     | 7,550                                      | 200                                                  | 190 | 220 | 170 | Tr 220x4                                     | HM 44T                           |
| AH 2244                     | 9,100                                      | 220                                                  | 200 | 240 | 130 | Tr 240x4                                     | HM 48T                           |
| AH 2344                     | 13,500                                     | 220                                                  | 200 | 240 | 181 | Tr 240x4                                     | HM 48T                           |
| AH 2248                     | 11,100                                     | 240                                                  | 220 | 260 | 144 | Tr 260x4                                     | HM 52T                           |
| AH 2348                     | 15,500                                     | 240                                                  | 220 | 260 | 189 | Tr 260x4                                     | HM 52T                           |
| AH 2252                     | 14,000                                     | 260                                                  | 240 | 290 | 155 | Tr 290x4                                     | HM 58T                           |
| AH 2352                     | 19,600                                     | 260                                                  | 240 | 290 | 205 | Tr 290x4                                     | HM 58T                           |
| AH 2256                     | 15,200                                     | 280                                                  | 260 | 310 | 155 | Tr 310x5                                     | HM 62T                           |
| AH 2356                     | 21,600                                     | 280                                                  | 260 | 310 | 212 | Tr 310x5                                     | HM 62T                           |
| AH 2260                     | 18,100                                     | 300                                                  | 280 | 330 | 170 | Tr 330x5                                     | HM 66T                           |
| AH 2264                     | 20,200                                     | 320                                                  | 300 | 350 | 180 | Tr 350x5                                     | HM 70T                           |

# MANGUITOS DE DESMONTAJE AHX3/AHX30/AHX31/AHX32 (CONT.) / REMOVAL SLEEVES AHX3/AHX30/AHX31/AHX32 (CONT.) / MANCHONS DE DÉMONTAGE AHX3/AHX30/AHX31/AHX32 (CONT.) / ABZIEHHÜLSEN AHX3/AHX30/AHX31/AHX32 (FORTS.)

| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |    |     |    | Roscado<br>Thread<br>Filetage<br>Mit gewinde | Tuerca<br>Nut<br>Écrou<br>Mutter |
|-----------------------------|--------------------------------------------|------------------------------------------------------|----|-----|----|----------------------------------------------|----------------------------------|
|                             |                                            | d                                                    | d1 | d2  | L  |                                              |                                  |
| AHX 310                     | 0,140                                      | 50                                                   | 45 | 55  | 35 | M 55x2                                       | KM 11                            |
| AHX 311                     | 0,160                                      | 55                                                   | 50 | 60  | 37 | M 60x2                                       | KM 12                            |
| AHX 312                     | 0,190                                      | 60                                                   | 55 | 65  | 40 | M 65x2                                       | KM 13                            |
| AHX 317                     | 0,430                                      | 85                                                   | 80 | 95  | 52 | M 95x2                                       | KM 19                            |
| AHX 318                     | 0,460                                      | 90                                                   | 85 | 100 | 53 | M 100x2                                      | KM 20                            |
| AHX 3218                    | 0,580                                      | 90                                                   | 85 | 100 | 63 | M 100x2                                      | KM 20                            |
| AHX 319                     | 0,530                                      | 95                                                   | 90 | 105 | 57 | M 105x2                                      | KM 21                            |

# MANGUITOS DE DESMONTAJE AHX3/AHX30/AHX31/AHX32 / REMOVAL SLEEVES AHX3/AHX30/AHX31/AHX32 / MANCHONS DE DÉMONTAGE AHX3/AHX30/AHX31/AHX32 / ABZIEHHÜLSEN AHX3/AHX30/AHX31/AHX32

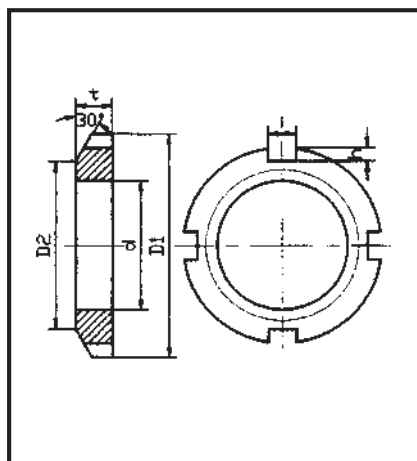


| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |     |     | Roscado<br>Thread<br>Filetage<br>Mit gewinde | Tuerca<br>Nut<br>Écrou<br>Mutter |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|-----|-----|----------------------------------------------|----------------------------------|
|                             |                                            | d                                                    | d1  | d2  | L   |                                              |                                  |
| AHX 320                     | 0,590                                      | 100                                                  | 95  | 110 | 59  | M 110x2                                      | KM 22                            |
| AHX 3120                    | 0,650                                      | 100                                                  | 95  | 110 | 64  | M 110x2                                      | KM 22                            |
| AHX 3220                    | 0,770                                      | 100                                                  | 95  | 110 | 73  | M 110x2                                      | KM 22                            |
| AHX 322                     | 0,710                                      | 110                                                  | 105 | 120 | 63  | M 120x2                                      | KM 24                            |
| AHX 3122                    | 0,760                                      | 110                                                  | 105 | 120 | 69  | M 120x2                                      | KM 24                            |
| AHX 3222                    | 1,040                                      | 110                                                  | 105 | 125 | 82  | M 125x2                                      | KM 25                            |
| AHX 3024                    | 0,750                                      | 120                                                  | 115 | 130 | 60  | M 130x2                                      | KM 26                            |
| AHX 3124                    | 0,950                                      | 120                                                  | 115 | 130 | 75  | M 130x2                                      | KM 26                            |
| AHX 3224                    | 1,300                                      | 120                                                  | 115 | 135 | 90  | M 135x2                                      | KM 27                            |
| AHX 3026                    | 0,930                                      | 130                                                  | 125 | 140 | 67  | M 140x2                                      | KM 28                            |
| AHX 3126                    | 1,080                                      | 130                                                  | 125 | 140 | 78  | M 140x2                                      | KM 28                            |
| AHX 3226                    | 1,580                                      | 130                                                  | 125 | 145 | 98  | M 145x2                                      | KM 29                            |
| AHX 3028                    | 1,010                                      | 140                                                  | 135 | 150 | 69  | M 150x2                                      | KM 30                            |
| AHX 3128                    | 1,260                                      | 140                                                  | 135 | 150 | 83  | M 150x2                                      | KM 30                            |
| AHX 3228                    | 1,840                                      | 140                                                  | 135 | 155 | 104 | M 155x3                                      | KM 31                            |
| AHX 3030                    | 1,120                                      | 150                                                  | 145 | 160 | 72  | M 160x3                                      | KM 32                            |
| AHX 3130                    | 1,790                                      | 150                                                  | 145 | 165 | 96  | M 165x3                                      | KM 33                            |
| AHX 3230                    | 2,200                                      | 150                                                  | 145 | 165 | 114 | M 165x3                                      | KM 33                            |
| AHX 3088                    | 32,000                                     | 440                                                  | 420 | 470 | 194 | Tr 470x5                                     | HML 94T                          |
| AHX 3188                    | 49,800                                     | 440                                                  | 420 | 480 | 270 | Tr 480x5                                     | HM 96T                           |
| AHX 3288                    | 63,800                                     | 440                                                  | 420 | 480 | 330 | Tr 480x5                                     | HM 96T                           |
| AHX 3092                    | 35,200                                     | 460                                                  | 440 | 490 | 202 | Tr 490x5                                     | HML 96T                          |
| AHX 3192                    | 57,900                                     | 460                                                  | 440 | 510 | 285 | Tr 510x6                                     | HM 102T                          |
| AHX 3292                    | 74,500                                     | 460                                                  | 440 | 510 | 349 | Tr 510x6                                     | HM 102T                          |
| AHX 3096                    | 39,200                                     | 480                                                  | 460 | 520 | 205 | Tr 520x6                                     | HML 104T                         |
| AHX 3196                    | 63,100                                     | 480                                                  | 460 | 530 | 295 | Tr 530x6                                     | HM 106T                          |
| AHX 3296                    | 82,100                                     | 480                                                  | 460 | 530 | 364 | Tr 530x6                                     | HM 106T                          |

## MANGUITOS DE DESMONTAJE AHX23 / REMOVAL SLEEVES AHX23 / MANCHONS DE DÉMONTAGE AHX23 / ABZIEHHÜLSEN AHX23

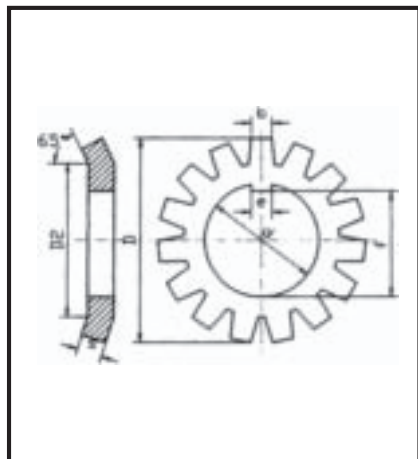
| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |     |     | Roscado<br>Thread<br>Filetage<br>Mit gewinde | Tuerca<br>Nut<br>Écrou<br>Mutter |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|-----|-----|----------------------------------------------|----------------------------------|
|                             |                                            | d                                                    | d1  | d2  | L   |                                              |                                  |
| AHX 2310                    | 0,210                                      | 50                                                   | 45  | 55  | 50  | M 55x2                                       | KM 11                            |
| AHX 2311                    | 0,250                                      | 55                                                   | 50  | 60  | 54  | M 60x2                                       | KM 12                            |
| AHX 2312                    | 0,300                                      | 60                                                   | 55  | 65  | 58  | M 65x2                                       | KM 13                            |
| AHX 2314                    | 0,490                                      | 70                                                   | 65  | 80  | 64  | M 80x2                                       | KM 16                            |
| AHX 2315                    | 0,530                                      | 75                                                   | 70  | 85  | 68  | M 85x2                                       | KM 17                            |
| AHX 2316                    | 0,600                                      | 80                                                   | 72  | 90  | 71  | M 90x2                                       | KM 18                            |
| AHX 2317                    | 0,670                                      | 85                                                   | 80  | 95  | 74  | M 95x2                                       | KM 19                            |
| AHX 2318                    | 0,780                                      | 90                                                   | 85  | 100 | 79  | M 100x2                                      | KM 20                            |
| AHX 2319                    | 0,880                                      | 95                                                   | 90  | 105 | 85  | M 105x2                                      | KM 21                            |
| AHX 2320                    | 1,000                                      | 100                                                  | 95  | 110 | 90  | M 110x2                                      | KM 22                            |
| AHX 2322                    | 1,350                                      | 110                                                  | 105 | 125 | 98  | M 125x2                                      | KM 25                            |
| AHX 2324                    | 1,600                                      | 120                                                  | 115 | 135 | 105 | M 135x2                                      | KM 27                            |
| AHX 2326                    | 1,980                                      | 130                                                  | 125 | 145 | 115 | M 145x2                                      | KM 29                            |
| AHX 2328                    | 2,330                                      | 140                                                  | 135 | 155 | 125 | M 155x3                                      | KM 31                            |
| AHX 2330                    | 2,820                                      | 150                                                  | 145 | 165 | 135 | M 165x3                                      | KM 33                            |

# TUERCAS DE LA SERIE KM Y KML / NUTS OF THE KM AND KML SERIES ÉCROUS DE LA SÉRIE KM ET KML / MUTTERN DER SERIE KM UND KML



| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Roscado<br>Thread<br>Filetage<br>Mit gewinde | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |      |    | Tuerca<br>Nut<br>Écrou<br>Mutter |
|-----------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|-----|------|----|----------------------------------|
|                             |                                            |                                              | d                                                    | d1  | d2   | t  |                                  |
| KM 0                        | 0,005                                      | M 10x0,75                                    | 10                                                   | 18  | 13,5 | 4  | MB 0                             |
| KM 1                        | 0,007                                      | M 12x1                                       | 12                                                   | 22  | 17   | 4  | MB 1                             |
| KM 2                        | 0,010                                      | M 15x1                                       | 15                                                   | 25  | 21   | 5  | MB 2                             |
| KM 3                        | 0,013                                      | M 17x1                                       | 17                                                   | 28  | 24   | 5  | MB 3                             |
| KM 4                        | 0,019                                      | M 20x1                                       | 20                                                   | 32  | 26   | 6  | MB 4                             |
| KM 5                        | 0,025                                      | M 25x1,5                                     | 25                                                   | 38  | 32   | 7  | MB 5                             |
| KM 6                        | 0,043                                      | M 30x1,5                                     | 30                                                   | 45  | 38   | 7  | MB 6                             |
| KM 7                        | 0,053                                      | M 35x1,5                                     | 35                                                   | 52  | 44   | 8  | MB 7                             |
| KM 8                        | 0,085                                      | M 40x1,5                                     | 40                                                   | 58  | 50   | 9  | MB 8                             |
| KM 9                        | 0,120                                      | M 45x1,5                                     | 45                                                   | 65  | 56   | 10 | MB 9                             |
| KM 10                       | 0,150                                      | M 50x1,5                                     | 50                                                   | 70  | 61   | 11 | MB 10                            |
| KM 11                       | 0,160                                      | M 55x2                                       | 55                                                   | 75  | 67   | 11 | MB 11                            |
| KM 12                       | 0,170                                      | M 60x2                                       | 60                                                   | 80  | 73   | 11 | MB 12                            |
| KM 13                       | 0,200                                      | M 65x2                                       | 65                                                   | 85  | 79   | 12 | MB 13                            |
| KM 14                       | 0,240                                      | M 70x2                                       | 70                                                   | 92  | 85   | 12 | MB 14                            |
| KM 15                       | 0,290                                      | M 75x2                                       | 75                                                   | 98  | 90   | 13 | MB 15                            |
| KM 16                       | 0,400                                      | M 80x2                                       | 80                                                   | 105 | 95   | 15 | MB 16                            |
| KM 17                       | 0,450                                      | M 85x2                                       | 85                                                   | 110 | 102  | 16 | MB 17                            |
| KM 18                       | 0,560                                      | M 90x2                                       | 90                                                   | 120 | 108  | 16 | MB 18                            |
| KM 19                       | 0,660                                      | M 95x2                                       | 95                                                   | 125 | 113  | 17 | MB 19                            |
| KM 20                       | 0,700                                      | M 100x2                                      | 100                                                  | 130 | 120  | 18 | MB 20                            |
| KM 21                       | 0,850                                      | M 105x2                                      | 105                                                  | 140 | 126  | 18 | MB 21                            |
| KM 22                       | 0,970                                      | M 110x2                                      | 110                                                  | 145 | 133  | 19 | MB 22                            |
| KM 23                       | 1,010                                      | M 115x2                                      | 115                                                  | 150 | 137  | 19 | MB 23                            |
| KM 24                       | 1,080                                      | M 120x2                                      | 120                                                  | 155 | 138  | 20 | MB 24                            |
| KM 25                       | 1,190                                      | M 125x2                                      | 125                                                  | 160 | 148  | 21 | MB 25                            |
| KM 26                       | 1,250                                      | M 130x2                                      | 130                                                  | 165 | 149  | 21 | MB 26                            |
| KM 27                       | 1,550                                      | M 135x2                                      | 135                                                  | 175 | 160  | 22 | MB 27                            |
| KM 28                       | 1,560                                      | M 140x2                                      | 140                                                  | 180 | 160  | 22 | MB 28                            |
| KM 29                       | 2,000                                      | M 145x2                                      | 145                                                  | 190 | 172  | 24 | MB 29                            |
| KM 30                       | 2,030                                      | M 150x2                                      | 150                                                  | 195 | 171  | 25 | MB 30                            |
| KM 31                       | 2,210                                      | M 155x3                                      | 155                                                  | 200 | 182  | 25 | MB 31                            |
| KM 32                       | 2,590                                      | M 160x3                                      | 160                                                  | 210 | 182  | 25 | MB 32                            |
| KM 33                       | 2,430                                      | M 165x3                                      | 165                                                  | 210 | 193  | 26 | MB 33                            |
| KM 34                       | 2,800                                      | M 170x3                                      | 170                                                  | 220 | 193  | 26 | MB 34                            |
| KM 36                       | 3,070                                      | M 180x3                                      | 180                                                  | 230 | 203  | 27 | MB 36                            |
| KM 38                       | 3,390                                      | M 190x3                                      | 190                                                  | 240 | 214  | 28 | MB 38                            |
| KM 40                       | 3,690                                      | M 200x3                                      | 200                                                  | 250 | 226  | 29 | MB 40                            |
| KML 24                      | 0,780                                      | M 120x2                                      | 120                                                  | 145 | 135  | 20 | MBL 24                           |
| KML 26                      | 0,880                                      | M 130x2                                      | 130                                                  | 155 | 145  | 21 | MBL 26                           |
| KML 28                      | 0,990                                      | M 140x2                                      | 140                                                  | 165 | 155  | 22 | MBL 28                           |
| KML 30                      | 1,380                                      | M 150x2                                      | 150                                                  | 180 | 170  | 24 | MBL 30                           |
| KML 32                      | 1,560                                      | M 160x3                                      | 160                                                  | 190 | 180  | 25 | MBL 32                           |
| KML 34                      | 1,720                                      | M 170x3                                      | 170                                                  | 200 | 190  | 26 | MBL 34                           |
| KML 36                      | 1,950                                      | M 180x3                                      | 180                                                  | 210 | 200  | 27 | MBL 36                           |
| KML 38                      | 2,080                                      | M 190x3                                      | 190                                                  | 220 | 210  | 28 | MBL 38                           |
| KML 40                      | 2,980                                      | M 200x3                                      | 200                                                  | 240 | 220  | 29 | MBL 40                           |

# ARANDELAS DE LA SERIE MB Y MBL / WASHERS OF THE MB AND MBL SERIES / RONDELLES DE LA SÉRIE MB ET MBL / **UNTERLEBSCHLEIBEN DER SERIE MB UND MBL**



| Tipo<br>Type<br>Type<br>Typ | Peso<br>Weight<br>Poids<br>Gewicht<br>(kg) | Dimensiones<br>Dimensions<br>Dimensions<br>Dimension |     |      |    |       |      | Tuerca<br>Nut<br>Écrou<br>Mutter |
|-----------------------------|--------------------------------------------|------------------------------------------------------|-----|------|----|-------|------|----------------------------------|
|                             |                                            | d                                                    | d1  | d2   | e  | f     | s    |                                  |
| MB 0                        | 1,30                                       | 10                                                   | 21  | 13,5 | 3  | 8,5   | 1    | KM 0                             |
| MB 1                        | 1,90                                       | 12                                                   | 25  | 17   | 3  | 10,5  | 1    | KM 1                             |
| MB 2                        | 2,50                                       | 15                                                   | 28  | 21   | 4  | 13,5  | 1    | KM 2                             |
| MB 3                        | 3,10                                       | 17                                                   | 32  | 24   | 4  | 15,5  | 1    | KM 3                             |
| MB 4                        | 3,50                                       | 20                                                   | 36  | 26   | 4  | 18,5  | 1    | KM 4                             |
| MB 5                        | 6,40                                       | 25                                                   | 42  | 32   | 5  | 23    | 1    | KM 5                             |
| MB 6                        | 7,80                                       | 30                                                   | 49  | 38   | 5  | 27,5  | 1,25 | KM 6                             |
| MB 7                        | 10,40                                      | 35                                                   | 57  | 44   | 6  | 32,5  | 1,25 | KM 7                             |
| MB 8                        | 12,30                                      | 40                                                   | 62  | 50   | 6  | 37,5  | 1,25 | KM 8                             |
| MB 9                        | 15,20                                      | 45                                                   | 69  | 56   | 6  | 42,5  | 1,25 | KM 9                             |
| MB 10                       | 16,00                                      | 50                                                   | 74  | 61   | 6  | 47,5  | 1,25 | KM 10                            |
| MB 11                       | 19,60                                      | 55                                                   | 81  | 67   | 8  | 52,5  | 1,25 | KM 11                            |
| MB 12                       | 25,30                                      | 60                                                   | 86  | 73   | 8  | 57,5  | 1,5  | KM 12                            |
| MB 13                       | 29,00                                      | 65                                                   | 92  | 79   | 8  | 62,5  | 1,5  | KM 13                            |
| MB 14                       | 30,40                                      | 70                                                   | 98  | 85   | 8  | 66,5  | 1,5  | KM 14                            |
| MB 15                       | 35,60                                      | 75                                                   | 104 | 90   | 8  | 71,5  | 1,5  | KM 15                            |
| MB 16                       | 46,40                                      | 80                                                   | 112 | 95   | 10 | 76,5  | 1,75 | KM 16                            |
| MB 17                       | 52,40                                      | 85                                                   | 119 | 102  | 10 | 81,5  | 1,75 | KM 17                            |
| MB 18                       | 62,30                                      | 90                                                   | 126 | 108  | 10 | 86,5  | 1,75 | KM 18                            |
| MB 19                       | 67,00                                      | 95                                                   | 133 | 113  | 10 | 91,5  | 1,75 | KM 19                            |
| MB 20                       | 76,50                                      | 100                                                  | 142 | 120  | 12 | 96,5  | 1,75 | KM 20                            |
| MB 21                       | 82,60                                      | 105                                                  | 145 | 126  | 12 | 100,5 | 1,75 | KM 21                            |
| MB 22                       | 94,00                                      | 110                                                  | 154 | 133  | 12 | 105,5 | 1,75 | KM 22                            |
| MB 23                       | 108,00                                     | 115                                                  | 159 | 137  | 12 | 110,5 | 2    | KM 23                            |
| MB 24                       | 105,00                                     | 120                                                  | 164 | 138  | 14 | 115   | 2    | KM 24                            |
| MB 25                       | 118,00                                     | 125                                                  | 170 | 148  | 14 | 120   | 2    | KM 25                            |
| MB 26                       | 113,00                                     | 130                                                  | 175 | 149  | 14 | 125   | 2    | KM 26                            |
| MB 27                       | 144,00                                     | 135                                                  | 185 | 160  | 14 | 130   | 2    | KM 27                            |
| MB 28                       | 142,00                                     | 140                                                  | 192 | 160  | 15 | 135   | 2    | KM 28                            |
| MB 29                       | 168,00                                     | 145                                                  | 202 | 172  | 15 | 140   | 2    | KM 29                            |
| MB 32                       | 155,00                                     | 150                                                  | 205 | 171  | 15 | 145   | 2    | KM 32                            |
| MB 31                       | 209,00                                     | 155                                                  | 212 | 182  | 15 | 147,5 | 2,5  | KM 31                            |
| MB 32                       | 222,00                                     | 160                                                  | 217 | 182  | 18 | 154   | 2,5  | KM 32                            |
| MB 33                       | 241,00                                     | 165                                                  | 222 | 193  | 18 | 157,5 | 2,5  | KM 33                            |
| MB 34                       | 247,00                                     | 170                                                  | 232 | 193  | 18 | 164   | 2,5  | KM 34                            |
| MB 36                       | 268,00                                     | 180                                                  | 242 | 203  | 20 | 174   | 2,5  | KM 36                            |
| MB 38                       | 178,00                                     | 190                                                  | 252 | 214  | 20 | 184   | 2,5  | KM 38                            |
| MB 40                       | 193,00                                     | 200                                                  | 262 | 226  | 20 | 194   | 2,5  | KM 40                            |
| MBL 24                      | 77,00                                      | 120                                                  | 151 | 135  | 14 | 115   | 2    | KML 24                           |
| MBL 26                      | 87,00                                      | 130                                                  | 161 | 145  | 14 | 125   | 2    | KML 26                           |
| MBL 28                      | 109,00                                     | 140                                                  | 171 | 155  | 16 | 135   | 2    | KML 28                           |
| MBL 30                      | 113,00                                     | 150                                                  | 188 | 170  | 16 | 145   | 2    | KML 30                           |
| MBL 32                      | 162,00                                     | 160                                                  | 199 | 180  | 18 | 154   | 2,5  | KML 32                           |
| MBL 34                      | 170,00                                     | 170                                                  | 211 | 190  | 18 | 164   | 2,5  | KML 34                           |
| MBL 36                      | 180,00                                     | 180                                                  | 221 | 200  | 20 | 174   | 2,5  | KML 36                           |
| MBL 38                      | 205,00                                     | 190                                                  | 231 | 210  | 20 | 184   | 2,5  | KML 38                           |
| MBL 40                      | 214,00                                     | 200                                                  | 245 | 220  | 20 | 194   | 2,5  | KML 40                           |